

中国独活属新分类群

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NEW TAXA OF *HERACLEUM* L. (UMBELLIFERAE) FROM CHINA

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Abstract Three new species of the genus *Heracleum* L. (Umbelliferae) are described from Sichuan Province, China. They are *H. wenchuanense*; *H. wolongense* and *H. xiaojinense*.

Key words *Heracleum*; *H. wenchuanense*; *H. wolongense*; *H. xiaojinense*

关键词 独活属; 汶川独活; 卧龙独活; 小金独活

汶川独活 新种 图1

Heracleum wenchuanense Pu et X. J. He, sp. nov.

Species affinis *H. vicino* Boissieu, sed foliolis lateovatis, basibus cordatis; involucri phyllis 1—3; fructibus suborbicularibus; vittis ad vallecules 1—2 differt.

perennis 1—1.5m alta. Folia basilaria longe petiolis 40—50cm longis; lamina ambitu deltoidea 20—28cm longa, 20—25cm lata, ternata, foliolis lateralibus late-ovatis, 12—15cm longis, 12—13cm latis, terminalibus flabellatis, 16—18cm longis, 19—23cm latis, basibus cordatis, margine lobatis et serratis, sparsim puberulis; folia superiora caulinarum trisecta. Umbellae terminales et axillaresque, 9—14cm in diam.; involucri phylla 1—3, linearia, 1.5—2cm longa; radii 17—20, inaequilongi, 4—8cm longi, puberuli; involucelli phylla



图1 汶川独活 1. 根; 2. 果枝; 3. 小伞形果序; 4. 分生果; 5. 分生果横剖面。 (马建生绘)

Fig. 1 *Heracleum wenchuanense* 1. root; 2. fruiting branch; 3. umbellule; 4. mericarps; 5. cross section of mericarp.

5 — 8, quam pedicelli fructiferi longiora, 1 — 1.5cm longa; umbellulae 20 — 30-florae; calycis dentes minores. Mericarpia suborbiculata, a dorso-ventraliter compressa, 8 — 9mm longa, 7 — 8mm lata; vittae ad valleculeas 1 — 2, ad commissuram 2.

Sichuan (四川): Wenchuan (汶川), Balang Mt. (巴郎山) alt. about 3500m. at the edge of forests. 1990-09-26, Pu Fa-ting (溥发鼎), He Xing-jin et al. (何兴金等) 9063 (Holotypus, CDBI, Isotypus JSBI).

多年生草本, 高 1 — 1.5m。基生叶具长柄, 长 40 — 50cm; 叶片轮廓三角形, 长 20 — 28cm, 宽 20 — 25cm, 三出式分裂, 两侧的小叶宽卵形, 长 12 — 15cm, 宽 12 — 13cm, 顶端的小叶扇形, 长 16 — 18cm, 宽 19 — 23cm, 边缘不规则浅裂, 有锯齿, 小叶基部心形, 叶两面被稀疏柔毛; 茎上部叶 3 裂。复伞形花序顶生和腋生, 直径 9 — 14cm; 总苞片 1 — 3, 线形, 长 1.5 — 2cm; 伞辐 17 — 20, 不等长, 长 4 — 8cm, 被柔毛; 小总苞片 5 — 8, 长于果柄, 长 1 — 1.5cm; 每小伞形花序有花 20 — 30 朵; 萼齿细小。分生果近圆形, 背腹扁压, 长 8 — 9mm, 宽 7 — 8mm; 每棱槽油管 1 — 2, 合生面油管 2。

本种与平截独活 *H. vicino* Brossieu 相近, 叶片三出式分裂, 呈 3 小叶; 伞辐 15 — 20。但本种小叶基部心形; 总苞片 1 — 3; 分生果近圆形; 每棱槽油管 1 — 2。后者无总苞, 果实倒卵形, 每棱槽油管单一。

卧龙独活 新种 图 2

***Heracleum wolongense* Pu et X. J. He, sp. nov.**

Proximum *H. henryi* H. Wolff, a quo foliorum foliolis ultimis ovatis vel ovato-rhombicis; involucri phyllis et sepalis nullis differt.

Herba perennis, 1 — 1.5m alta, tota puberula. Folia basilaria petiolata, 35 — 50cm longa; lamina 4-jugo-ternato-bipinnata, foliolis ultimis ovatis vel ovato-rhombicis, 5 — 12cm longis, 3 — 6cm latis, ad marginem 3 — 5-lobis, nervis pubescentis; folia superiora caulinarum sensim simpliciora, minora, sessilia, vaginis longe ovatis, laminis trisectis. Umbellae fructiferae 11 — 20cm in diam; involucri phylla nulla; radii 24 — 35, inaequilongi, 4 — 10cm longi; involucelli phylla 5, linearia, quam pedicelli fructiferi breviora, 0.5 — 1cm longa; umbellulae 30 — 40-florae; calycis dentes nulli; petala alba, interanea obvata, basi cuneata, apice lobulo inflexo praedita, radiata petala late obvata. Mericarpia ovata vel suborbiculata, 7 — 9mm longa, c. 6mm lata; vittae ad valleculeas solitariae, ad commissuram 2.

Sichuan (四川): Wenchuan (汶川), Wolong (卧龙), Shawang (沙湾), in shrubs or grassland, alt. 2200m. 1990-07-28, He Xing-jin (何兴金) H-017 (Holotypus, CDBI); idem. (同地), Hetaoping (核桃坪), alt. 1920m. 1990-09-26, Pu Fa-ting (溥发鼎), He Xing-jin et al. (何兴金等) 9060.

多年生草本, 高 1 — 1.5m, 全体被柔毛。基生叶具柄, 长 35 — 50cm; 叶片三出

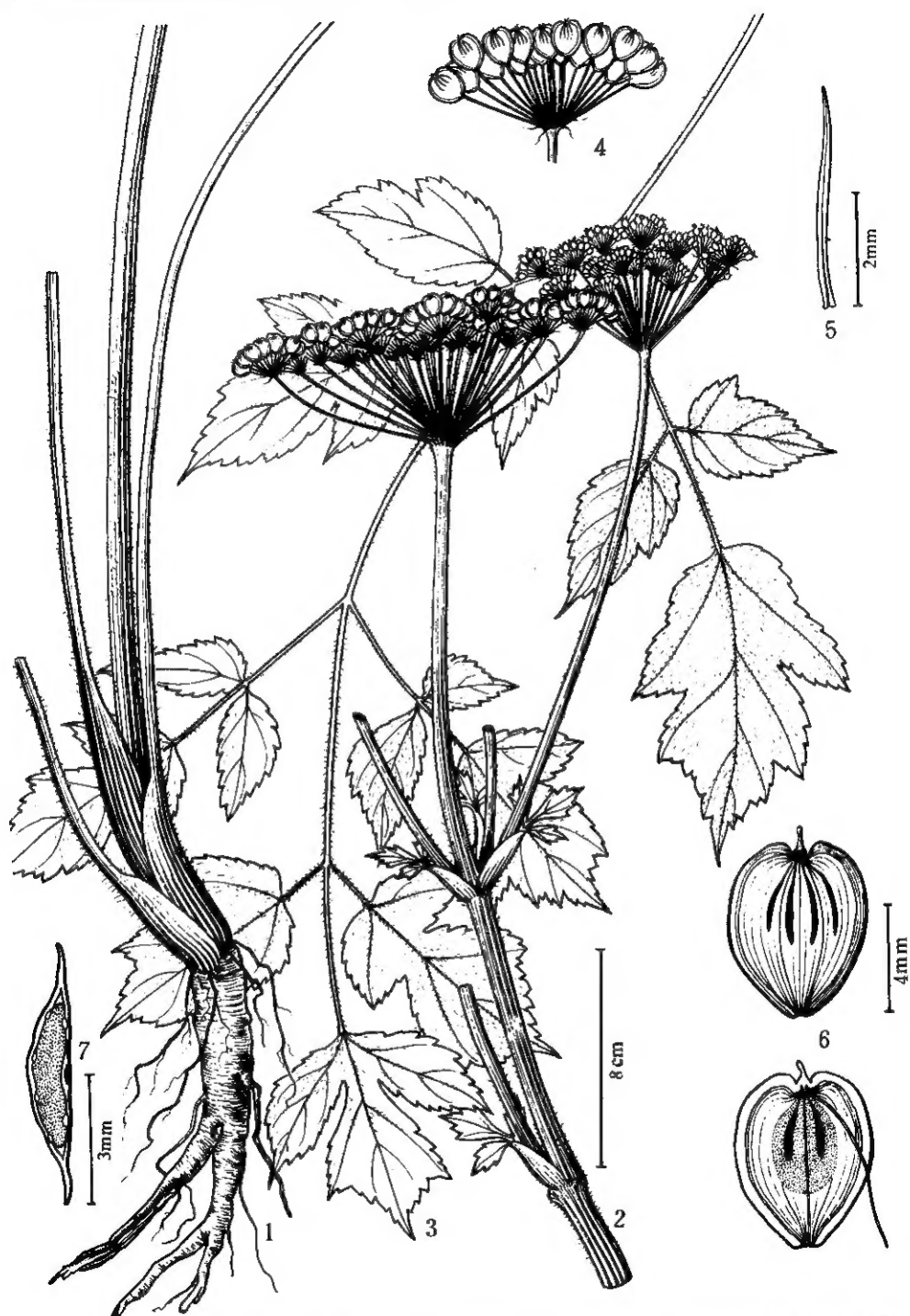


图2 卧龙独活 1. 根; 2. 果枝; 3. 基生叶; 4. 小伞果序; 5. 小总苞片; 6. 分生果; 7. 分生果横剖面。
(马建生绘)

Fig. 2 *Heracleum wolongense* 1. root; 2. fruiting branch; 3. basal leaf; 4. umbellule;
5. involucre bractlet; 6. mericarps; 7. cross section of mericarp.

式2回羽状分裂,第1回羽片4对,末回裂片卵形或菱状卵形,长5—12cm,宽3—6cm,边缘3—5裂,两面沿脉密被柔毛;茎上部叶简化,无柄,叶鞘长卵形,叶片3裂。果期伞形花序的直径11—20cm;无总苞;伞辐24—35,不等长,长4—10cm;小总苞片5,线形,短于果柄,长0.5—1cm;小伞形花序有30—40朵小花;无萼齿;花瓣白色,倒卵形,基部楔形,顶端具内折小舌片,辐射瓣宽倒卵形。分生果卵圆形或近圆形,长7—9mm,宽约6mm;每棱槽油管单一,合生面油管2。

本种与思茅独活 *H. henryi* H. Wolff 相近,叶片三出式2回羽状分裂,果实近圆形。但本种无总苞,无萼齿,叶末回裂片卵形或菱状卵形。后者具总苞,萼齿三角形,末回裂片披针形。

小金独活 新种 图3

Heracleum xiaojinense Pu et X. J. He, sp. nov.

Species affinis *H. fargesii* Boissieu, sed foliis basilaribus tripinnatisectis, segmentis ultimis lanceolatis, radiis ultra 30, 8—13cm longis differt.

Herba perennis, c. 1m alta. Caules validi, striati, raro pubescentes. Folia basilaria petiolata; lamina tripinnatisecta, segmentis ultimis lanceolatis 5—6cm longis, 1—1.5cm latis, marginibus serratis; folia superiora caulinaris sensim simpliciora, minora, sessilia, vaginata. Umbellae terminales et axillares; involucri phylla nulla; radii ultra 30, inaequilongi, 8—13cm longi; involucelli phylla multa, linearia 0.8—1.5cm longa, pedicellis fructiferis subaequilonga. Mericarpia suborbicularia, 5—6mm longa, c. 6mm lata, dorsaliter plus minusve convexa, jugis dorsalibus et intermediis filiformibus, leviter prominentibus; vittae clavatae ad valleculeas solitariae, ad commissuram nullae.

Sichuan (四川): Xiaojin (小金), alt. about 3800m, under forests or in shrub-meadows, 1975-08-16, Wang Jing-ao (王经敖) 9765 (Holotypus, CDBI).

多年生草本,高约1m。茎粗壮,具纵条纹,被稀疏柔毛。基生叶有柄;叶片3回羽状分裂,末回裂片披针形,长5—6cm,宽1—1.5cm,边缘有锯齿,茎上部叶逐渐简化,无柄,仅具叶鞘,叶片较小。复伞形花序顶生和腋生;无总苞;伞辐30以上,不等长,长8—13cm;小总苞片多数,线形,长0.8—1.5cm,与果柄近等长。分生果近圆形,长5—6mm,宽6mm左右,背面隆起,背棱和中棱较明显,线形;每棱槽中油管单一,合生面无油管。

本种与城口独活 *H. fargesii* Boissieu 相近,分生果合生面均无油管。但本种叶片3回羽状分裂,末回裂片披针形;伞辐30以上,长8—13cm;后者叶片3—5小叶,小叶片菱状卵形;伞辐14—17,长5—7cm。



图3 小金独活 1. 根; 2. 基生叶; 3. 果枝; 4. 果实; 5. 分生果横剖面。(马建生绘)

Fig. 3 *Heracleum Xiaojinense* 1. root; 2. basal leaf; 3. fruiting branch; 4. fruit;

5. cross section of mericarp.